Environmental Quality/Installation
R&D Strategic Planning Workshop

16-17 Mar 2004

Introduction and Welcome
Alan Moore

Iraq Safe House

Base Camp

ERDC Business Areas

- **Battlespace Environment**
- **Military Engineering**
- **Civil Works**
- Environmental Quality and Installations (EQ/I)

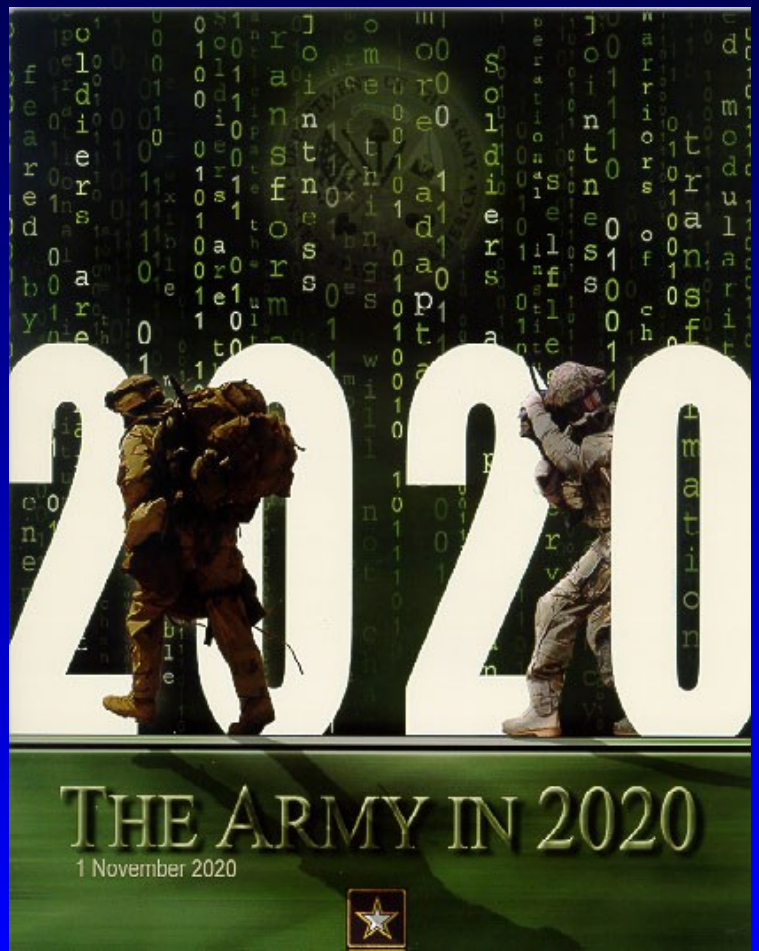
Our Focus: Environmental Quality and Installations

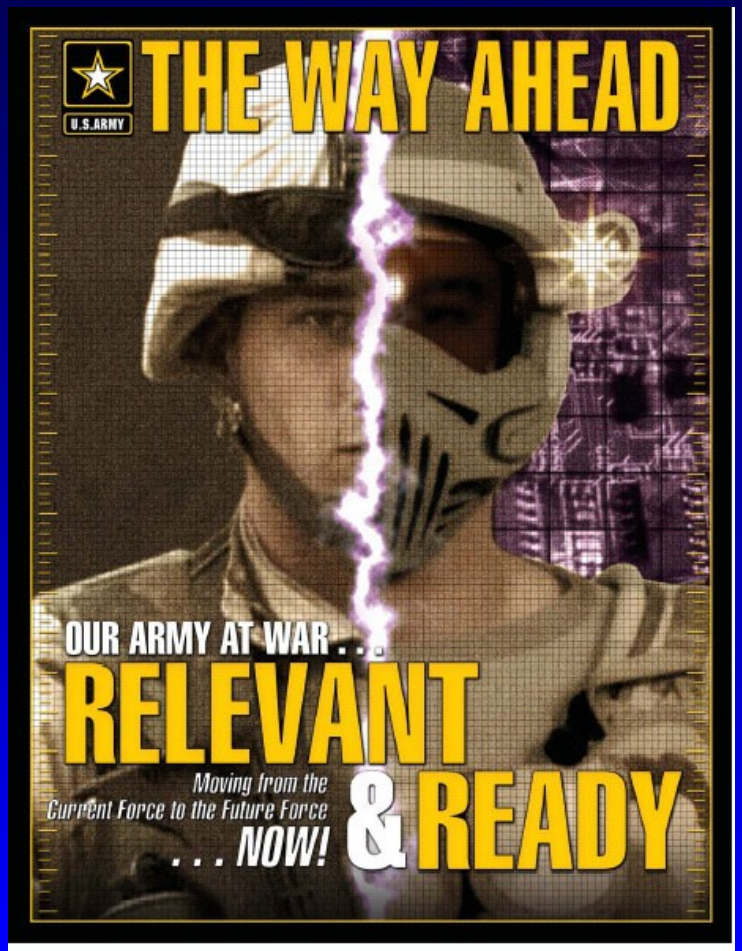
ERDC Business Areas

ERDC Labs	Business Areas			
	Battlespace Environmen	Military Engineeri	Civil Works	EQ and Installatio
ERDC-CERL			✓	✓
ERDC-CHL		✓	✓	
ERDC-CRREL	✓		✓	✓
ERDC-GSL		✓	✓	
ERDC-EL			✓	✓
ERDC-ITL		✓	✓	
ERDC-TEC	✓		✓	

Purpose of Workshop

- **Provide the basis to update EQ/I Research strategic plan and strengthen the link to vision for future Army**





Why Change?

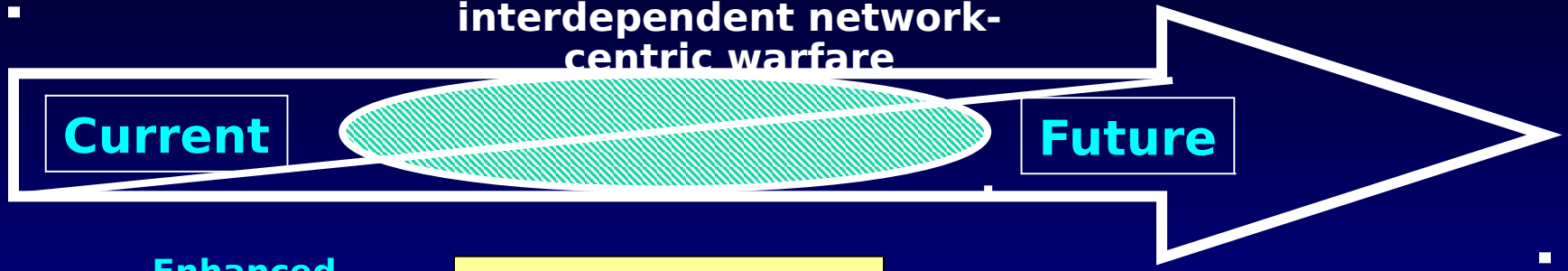
- Security Challenges of the 21st Century
- Compelling Need to Respond More Rapidly & Decisively
- Across the Full Spectrum of Military Operations
- Pace and Proliferation of Technology

These are powerful long-term change drivers for the Army

Change driver for EQ/I Research*: enhanced relevance to wa*

Evolving Army Transformation

Fully Networked Battle Command capabilities bridge from the Current to Future Force and enable interdependent network-centric warfare



Enhanced Capabilities

Increasingly:
- ***Integrated***
- ***Expeditionary***
- ***Networked***
- ***Decentralized***
- ***Adaptable***
- ***Decision Superior***
- ***Lethal***

Accelerated Development and Fielding of DOTMLPF Solutions

Characteristics of Army Transformation: *Responsiveness, Deployability, Agility, Versatility, Lethality, Survivability, and Sustainability fully support Future Joint Force Attributes*

Army vision: rapid changes ahead

We must adapt the EQ/I R&D program to support the Army's

Key Concept

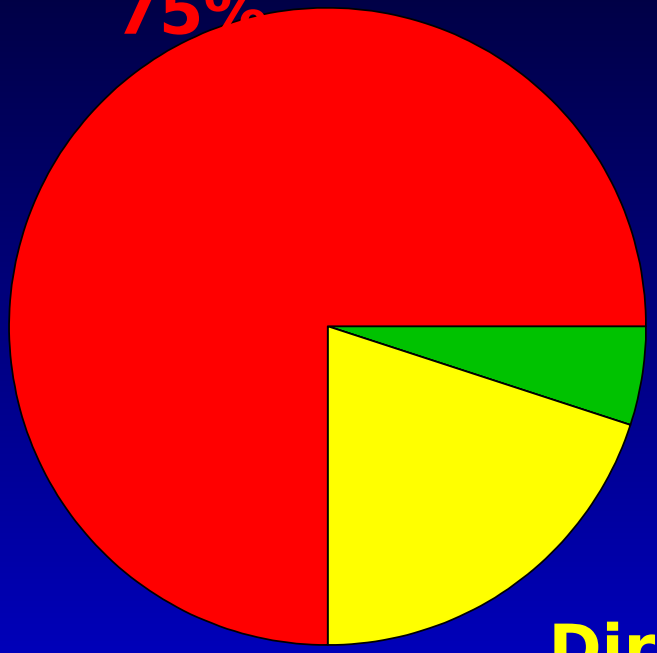
- Analogy with hockey
- For direct research program, we must look at needs of future Army
- Develop capabilities to support the future needs

Wayne Gretzky: "I skate to where the puck is go be, not where it is"

Leveraging of EQ/I Program

Customer-funded:

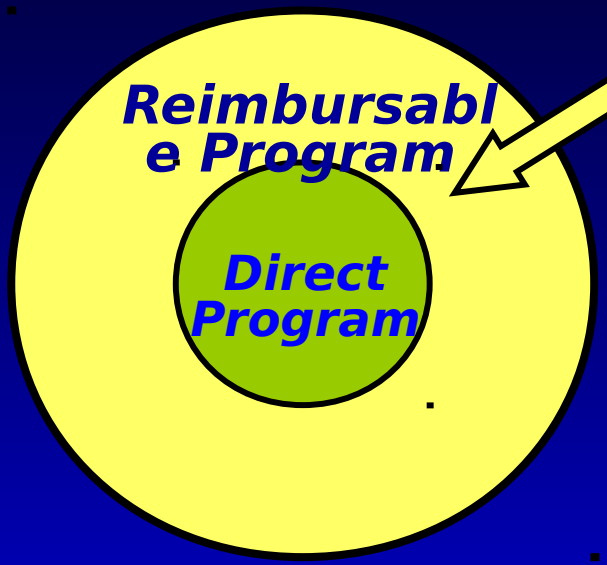
- Largest part
- Builds on "Tech Base" (Direct-funded)



Note on workshop: some challenges/gaps identified here
be met by customer-funded projects or by other organizat

Annual R&D Program Development

Overall Goal - Sustain Relevance to Army



Current Reimbursable Program exploits Direct Program Investments over the last 5-10 years

Focus on the Direct Program:

- *The Core of our R&D portfolio*
- *Our only "discretionary" Investment Capital*
- *"Technology base" for Future Customer-funded projects*

Today's Direct Research Program Investments ... ... Determine our future ability to support

Vital long-term goal of workshop: link our "capability gaps" to Force Operating Capabilities (FOC's)

Key Requirements for Army EQ/I Research Investment

- High level proponency
  - **Warfighter Focus**
  - **STO Potential**
- Strong S&T content
  - **Innovative and Leap-Ahead**
- Significant capability
  - **Enhanced Customer Capability**
  - **Capability internal to ERDC**

Workshop focus : establish the basis for a strong
future critical Army needs and strengthen propone

Approach to this Workshop

- Discuss Army's goals for Installations
  - **Customer/stakeholder perspectives**
  - **Presentations based on read-ahead**
  - **Focus discussions on six areas (next slide)**
- Breakout session 1: "Challenges"

  Identify and rank challenges to meet goals
- Breakout Session 2: "Gaps"

  Identify and prioritize capability gaps to meet those goals
- Open forum: identify research themes

Do not "censure in advance": don't limit challenges and gaps to those you would expect R&D to address

Workshop Approach
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- Six breakout areas:
  1. **Combat Preparations and Sustainment support**
  2. **Home Station Operations Center**
  3. **Information Hubs and Sensor Nets**
  4. **Joint Power Projection Platforms**
  5. **Installations and Community Protection**
  6. **Sustainable Installations as Holistic Communities**
- Read-ahead
  - **provides strawman and examples to stimulate discussion, not the final answer**

HOOAH and ESSAYONS!